

AP Environmental Science Study Guide

- I. Chapter 1: Environmental Problems, Their Causes, and Sustainability
 - a. 1-1: What are Some Principals of Sustainability?
 - i. Sustainability - the capacity of the natural Earth's systems and human cultural systems to survive, flourish, and adapt to changing environmental conditions into the very long-term future.
 - ii. Environment - everything around us
 - 1. We are utterly dependent on the earth for clean air and water, food, shelter, energy, fertile soil, and everything else in the planet's *life-support system*
 - 2. Environmental Science - an *interdisciplinary* study of how humans interact with the living and nonliving parts of their environment.
 - a. Integrates: *natural sciences* (Biology, Geology, and Chemistry), *social sciences* (Geography, Economics, and Political Science), *humanities* (ethics)
 - b. 3 goals:
 - i. To learn how life on the Earth has survived and thrived
 - ii. To understand how we interact with the environment
 - iii. To find ways to deal with environmental problems and live more sustainably
 - iii. Ecology - the biological science that studies how living things interact with one another and with their environment
 - 1. Organisms - living things
 - a. Each organisms belongs to a species, a group of organisms that has a unique set of characteristics that distinguish it from other groups of organisms
 - 2. Ecosystem - a set of organisms within a defined area or volume that interact with one another and with their environment of nonliving matter and energy.
 - 3. Environmentalism - a social movement dedicated to trying to protect the Earth's life-support system for all forms of life.
 - iv. Scientific Principals of Sustainability: lessons from nature, lead to from science based research there are 3 major natural factors that have played key roles in the long-term sustainability of life on this planet.
 - 1. Dependence on Solar Energy - use to produce nutrients or the chemicals necessary for their own life processes along with those of most other animals including humans; solar energy
 - 2. Biodiversity - the variety of genes, organisms, species, and ecosystems in which organism exist and interact
 - 3. Chemical Cycling (Nutrient Cycling): the circulation of chemicals necessary for life from the environment (mostly from soil and water) through organisms and back o the environment.
 - a. This means there is little waste in nature, other than the human world
 - v. Natural Capital - the natural resources and natural services that keep us and other species alive and support human economics.
 - vi. Natural Resources - materials and energy in nature that are essential or useful to humans
 - 1. Resources - anything that we can obtain from the environment to meet our needs and wants
 - a. Sustainable Yield - the highest rate at which we can use a renewable resource indefinitely without reducing its available supply
 - b. Refuse (don't use), Reduce (use less), Reuse, and Recycle
 - 2. Classified as: *inexhaustible resources* (continuous supply is expected to last for last for at least 6 billion years), *renewable resources* (can be replenished by natural

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Lingjun Ying



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